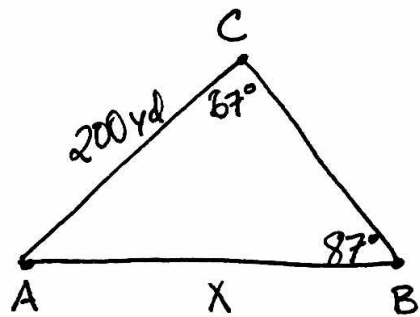


PCalc 3.5 Review Key cont.

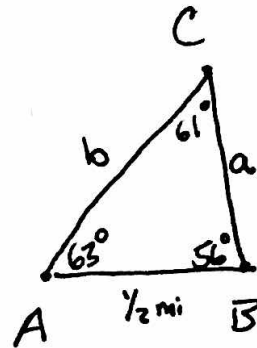
8



$$\frac{\sin 67^\circ}{X} = \frac{\sin 87^\circ}{200}$$

$$X = \frac{200 \sin 67^\circ}{\sin 87^\circ} = \boxed{184.35 \text{ yd.}}$$

9

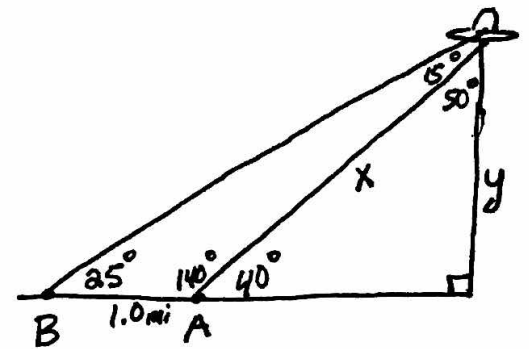


$$\frac{\sin 63^\circ}{a} = \frac{\sin 56^\circ}{b} = \frac{\sin 61^\circ}{0.5}$$

$$a = \frac{\frac{1}{2} \sin 63^\circ}{\sin 56^\circ} = \boxed{0.54 \text{ mi.}}$$

$$b = \frac{\frac{1}{2} \sin 56^\circ}{\sin 61^\circ} = \boxed{0.47 \text{ mi.}}$$

10



$$\frac{\sin 15^\circ}{1} = \frac{\sin 25^\circ}{X}$$

$$X = \frac{\sin 25^\circ}{\sin 15^\circ} =$$

$$\boxed{X = 1.63 \text{ mi}}$$

$$\sin 40^\circ = \frac{y}{1.63}$$

$$\boxed{y = 1.05 \text{ mi}}$$